

http://astrogeology.usgs.gov

Orbit

19.2 astronomical units (AU) from the Sun Earth is 1 AU from the Sun

Length of year

83.75 Earth years

Length of Day

17.2 Earth hours

Tilt of Rotation Axis

97.8 degrees versus 23.5 degrees for Earth

Size

Diameter: 4 times Earth's diameter

Surface Gravity

0.9 of Earth's gravity
If you weigh 80 pounds on Earth, you would weigh about 72 pounds on Uranus!

Mass

14.5 times greater than Earth's mass

Atmosphere

Primary components: 83% hydrogen, 15% helium, 2% methane

Surface

The gas planets do not have solid surfaces; their gaseous material simply gets denser with depth. What we see when looking at these planets are the tops of clouds high in their atmospheres.

Uranus is composed primarily of rock and various ices, with only about 15% hydrogen and a little helium (in contrast to Jupiter and Saturn which are mostly hydrogen). Uranus (and Neptune) is in many ways similar to the cores of Jupiter and Saturn minus the massive liquid metallic hydrogen envelope. It appears that Uranus does not have a rocky core like Jupiter and Saturn but rather that its material is more or less uniformly distributed.

Moons

Uranus has 22 named moons and 5 unnamed moons (as of July 2004)

Past Missions

Voyager 2, on January 24, 1986

Uranus

Seventh planet from the Sun



USGS/NASA PIA00346

Before Uranus was recognized as a planet, several astronomers had observed Uranus but recorded it as a fixed star. William Herschel discovered Uranus and tried unsuccessfully to name his discovery after Britain's King George III; the planet was named in 1781 for the mythological father of Saturn. Satellites in the Uranian system are named for characters in Shakespeare's plays and from Pope's Rape of the Lock.

Uranus rotates on its side – its pole is tilted 90 degrees to the plane of the solar system. Its motion against the field of background stars shows it to be a planet. The word "planet" is derived from a Greek word for "wanderer."